

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jo et al.

Examiner:

Serial No.: Not yet assigned

Group Art No.

Filed: Herewith

Docket: 763-29

For: SOLUBLE TRAUMA-HEALING
HEMOSTATIC CELLULOSE...

Dated: October 22, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT

Sir:

Please enter the following Preliminary Amendment in the above-identified application:

IN THE CLAIMS:

Amend Claims 5, 6, 9-11, 16-19, 26 and 29-33 as follows:

5. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 3 herein above characterized in that the three types of coagulation protein, being fibrinogen, thrombin, and coagulation factor XIII, are imparted jointly in a single application.

6. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 3 herein above characterized in that the three types of coagulation protein, being fibrinogen, thrombin, and coagulation factor XIII, are imparted severally by way of consecutive applications.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date October 22, 2001 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EL913583171US addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231.


George M. Kaplan

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9. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 7 herein above characterized in that the three types of coagulation protein, being fibrinogen, thrombin, and coagulation factor XIII, are chemically bonded jointly in a single pass.

10. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 7 herein above characterized in that the three types of coagulation protein, being fibrinogen, thrombin, and coagulation factor XIII, are chemically bonded severally in consecutive passes.

11. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 1 herein above characterized in that the aforesaid natural or regenerated cellulose fibers are pulverized after imparting the coagulation proteins.

16. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 1 herein above characterized in that the aforesaid natural or regenerated cellulose fibers are drawn thread array consisting of a number of single threads loosely twisted together.

17. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 1 herein above characterized in that the aforesaid natural or regenerated cellulose fibers are obtained by plain or twill weaving the drawn thread array consisting of a number of single threads loosely twisted together.

18. What is claimed is a method of soluble trauma-healing hemostatic cellulose fiber in accordance with claim 17 herein above characterized in that the drawn fiber arrays have a thickness of 20-100 Denier.

19. What is claimed is a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 1 herein above characterized in that said natural or regenerated cellulose fibers are a gauze-like material obtained by shoddy wool treatment.

26. What is claimed is a method of producing the aforementioned soluble trauma healing hemostatic cellulose fiber in accordance with claim 20 herein above characterized in that after imparting the coagulation proteins and after subsequent drying, the aforesaid natural or regenerated cellulose fiber is pulverized.

29. What is claimed is a method of producing the aforementioned soluble trauma-healing hemostatic cellulose fiber in accordance with claim 20 herein above characterized in that the reaction with monochloro acetic acid is conducted for 4-18 hours.

30. What is claimed is a method of soluble trauma-healing hemostatic cellulose fiber in accordance with claim 20 herein above characterized in that the aforesaid natural or regenerated cellulose fibers are drawn thread array consisting of a number of single threads loosely twisted together.

31. What is claimed is a method of producing a soluble trauma-healing hemostatic cellulose fiber in accordance with 20 herein above characterized in that the aforesaid natural or regenerated cellulose fibers are obtained by plain or twill weaving the drawn thread array consisting of a number of single threads loosely twisted together.

32. What is claimed is a method of producing a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 30 herein above characterized in that the drawn fiber arrays have a thickness of 20-100 Denier.

33. What is claimed is a method of producing a soluble trauma-healing hemostatic cellulose fiber in accordance with claim 20 herein above characterized in that said natural or regenerated cellulose fibers are a gauze-like material obtained by shoddy wool treatment.

IN THE ABSTRACT:

Please formally insert the abstract found on the accompanying page.

REMARKS:

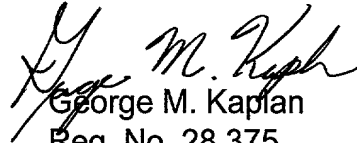
The claims in the application are 1-33.

Favorable consideration of the application as amended is respectfully requested.

The claims have been amended to eliminate all multiple dependencies (a marked-up copy is enclosed) with the Abstract formally inserted.

Early favorable action is earnestly solicited.

Respectfully submitted,
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